TABLE OF CONTENTS

		Page
Abstract		i
Acknowledgements	• • • • •	ii
Table of Contents		iii
List of Figures	• • • • •	V
List of Tables		vii
Introduction		1 5 16 27
Existing Data Base		58 60 61 62
Cultural Context and Data Quality Prehistoric Sites		64 64 68
Predictive Models		74 75 107
Management Considerations and Recommendations Prehistoric Site Significance		128 129 138 141
Management Strategies and Recommendations for Future	Work.	144
References Cited		151
Personnel		165
Appendices	m	166 166
Preservation Files Appendix III: Potential Historic Archaeologica		168
Sites Inventory		170

			Page
			172
Attachment	I:	Prehistoric Site Locations and Prehistoric Predictive Zones	172
Attachment	II:	Bureau of Archaeology and Historic	
		Preservation Site Locations	173
Attachment	III:	Potential Historic Archaeological Site Locations	174
Attachment	IV:	Levels of Significance for Historic	
3 L L l L	••	Resources	175
Attachment	v:	Management Units	176

LIST OF FIGURES

			Page
Figure	1:	Project Corridor Location	2
Figure	2:	Map of Project Corridors	3
Figure	3:	Physiographic Setting	6
Figure	4:	Sea Level Rise Curve	8
Figure	5:	Ancestral Drainage Patterns	10
Figure	6:	Shoreline Reconstructions	11
Figure	7:	Edaphic Zones	14
Figure	8:	Paleo-Indian Fluted Points	18
Figure	9:	Archaic Projectile Points	20
Figure	10:	Woodland I Projectile Points	22
Figure	11:	Woodland I Broadspears	23
Figure	12:	Woodland II Projectile Points	25
Figure	13:	Townsend Ceramic Sherds	26
Figure	14:	"A Map of the Counties of New Castle, Kent, and Sussex upon the Delaware", by Benjamin Eastburn (1737)	35
Figure	15:	Delaware Map of Hundreds, c1700 - c1800	40
Figure	16:	Detail of Varle's Map of Delaware, c1800	44
Figure	17:	Detail of Sussex County, from D.G. Beers' Atlas of the State of Delaware (1868)	48
Figure	18:	Delaware Population of New Castle, Kent, and Sussex Counties, 1790-1980	57
Figure	19:	Previous Archaeological Investigations in Southeastern Sussex	66
Figure	20:	Distribution of Known Prehistoric Sites in the Study Area	78
Figure	21:	Paleo-Indian/Archaic Study Units	80
Figure	22.	Serial Settlement/Lithic Utilization Model	81

			Page
Figure	23:	Paleo-Indian/Archaic Settlement Pattern	82
Figure	24:	Archaic Sites	84
Figure	25:	Known Woodland I Sites in the Beach Access Corridors	85
Figure	26:	Woodland I Sites in Atlantic Coast Area	86
Figure	27:	General Woodland I Site Model	87
Figure	28:	Woodland I Riverine Settlement Patterns	88
Figure	29:	Woodland I Coastal Zone Settlement Patterns	89
Figure	30:	Known Woodland II Sites in the Beach Access Corridors	91
Figure	31:	Woodland II Slaughter Creek Complex Sites	92
Figure	32:	Woodland II Settlement Model III	94
Figure	33:	Woodland II Settlement Model IV	95
Figure	34:	St. Jones/Murderkill Probability Map	102
Figure	35:	Potential Site Locations, 1630-1730	110
Figure	36:	Map of Sussex (1740)	112
Figure	37:	Potential Site Locations, 1730-1770	115
Figure	38:	Potential Site Locations, 1770-1830	118
Figure	39:	Potential Site Locations, 1830-1880	123
Figure	40:	Potential Site Locations, 1880-1940+	126
Figure	41:	Delaware Prehistoric Composite Sensitivity Zones	130
Figure	42:	Delaware Prehistoric Management Units	131
Figure	43:	Management Units	143

LIST OF TABLES

			Page
Table	1:	Paleo Environments in the Study Area	13
Table	2:	Population of Sussex County, 1800	41
Table	3:	Population Growth and Density, Baltimore Hundred, 1800-1870	42
Table	4:	Census of Manufactures in Delaware, 1810	47
Table	5:	Summary of Known Prehistoric Archaeological Sites	65
Table	6:	Summary of Standing Structures from the BAHP Site Files Within the Project Corridor	69
Table	7:	Summary of Site Types by Quad Map Within the Project Corridor	70
Table	8:	Summary of Potential Historic Archaeological Sites in the Beach Access Study Corridors	72
Table	9:	Summary of Potential Historical Archaeological. Sites by Corridor	73
Table	10:	Paleo-Indian Site Locations	83
Table	11:	Woodland I/II Study Units, Site Locations and Data Quality	90
Table	12:	Slaughter Creek Complex Settlement Models	93
Table	13:	Variables Used in LANDSAT Classification	101
Table	14:	Delaware LANDSAT Predictive Model Test Results.	103
Table	15:	Factor Correlation Matrix - Environmental Variables	106
Table	16:	Delaware Management Units	132
Table	17:	Management Priorities	133
Table	18:	Site Probabilities and Data Quality - Inland Bay/Mid-Drainage	134
Table	19:	Site Probabilities and Data Quality - Interior.	135

		Page
Table 20	: Site Probabilities and Data Quality - Coastal Management Unit	136
Table 21	Criteria for Evaluating the Archaeological Significance of Potential Historic Resources	140
Table 22	: Management Zones	142
Table 23	: Levels of Field Investigation by Prehistoric Site Types	147